

the

11350 - 11517

3 IN. x 5 IN. 90 SHEETS

45-4292

aMeadProduct

Human Log, Dayton, Ohio 45402

\$10.00 REWARD

for return
to

Arthur Cronquist
New York Botanical Garden
Bronx, N.Y. 10458.

Scientific data, of
no commercial value.

11350 = 9 May, 1976

Grand Co., Utah

With juniper, aspens
and Atriplex on a
substrate of sandstone
and pebbly conglomerate.

Shortly east of Harley
Dome, in the first low
hills ~~south~~ west of the Colo-
rado state line. Twp.
19S, R. 26E.

Bracts scarlet. Elv. ^{ca} 1400-1450m.

Castilleja chromosa A. Nels.

det. Noel H. Holmgren

Castilleja (P) v601

11351 - 9 May, 1976.

Grand Co., Utah

Same place as 11350.

Stems solitary or occasionally paired.

Petals rather light pink or pink-lavender at first, soon turning white.

Arabis pulchra M. E. Jones ex S. Wats.
var. *pallens* M. E. Jones ✓

Arabis pulchra var. ④

11352 - 12 May, 1976.

Sumas Co., Utah. With
sagebrush, *Atriplex*, and
juniper in rocky clay
soil over shale sub-
strate, ~~Twp. 20 S., R. 1 E.~~
in low foothills ca

5 km east of ~~Reeds~~^{Axtell} and

Twp. 20 S. R 1 E. Elev.
ca 1600 m. Flowers
pink.

Phlox longifolia Nutt.

var. *longifolia*

Phlox stans

(10)

11353 12 May, 1976

Searcy Co., Utah.

Same place as 11352.

Bracts ranging from
 vermilion-red through
 scarlet to crimson

Castilleja chromosa A. Nels.
det. Noel H. Holmgren

Castilleja off. sp. nov. (D)

11354 12 May, 1936.

Searles Co. Utah.

Around the edges of
barren, seleniferous
clay slopes, in foothills
ca 5 km. east of Ridge Axtell,
~~in~~ Richmond. Town.

S.S.R. 1E. Elev. ca. 1600 m.
Leaves blue-green, appear
glaucous. Peduncles
l, prostrate. Wings of
the fruit white to
brownish.

Ympoterus coulteri

(M.E. Jones) Mathias

Ympoterus (6)

11355 12 May, 1976

Searles Co., Utah.

Same place as 11354.

Growing with #11354,

C. coulteri (M. E. Jones) Mathies,
but with brighter green,
more dissected leaves,
and more stiffly ascend-
ing peduncles. Flowers are
old flowers yellow.

Cymopterus rosei

M. E. Jones

Cymopterus ①

11356 12 May, 1976;
7 June, 1976.
Sevier Co., Utah. Along
a north-facing wash
at the east foot of the
mountains, ca. 19 km
south-southwest of Emery,
Twp. 23S., R. 5E., near corner
of Ss. 27, 28, 33, 34. Elev.
ca. 1950 m. Trees varying
from narrow-headed to
broad-headed. ^{young} Leaves glutin-
ous and shiny golden on
both sides, varying in
shape from as in *P. angusti-*
~~*folia*~~ to ~~similarly~~ as in *P.*
Forrestii. Lvs.

11356 (cont'd),

Primary style branches
2, possibly 3.

Hybrid swarm:

Populus angustifolia forms
X

P. fremontii S.Wats.

✓

Populus "accuminata" ⑤

11357-12 May, 1936

Emery Co., Utah. Usually
gravelly slopes, ~~open~~
open pinon-juniper
woodland on the north
flank of the San Rafael
Range, ca. 28 km.
Southeast of Moab.

Twp. 22 S., R. 9 E., S. 33.

Elev. ca. 2000 m.

Sect. in nemilious
all is scarlet

Castilleja scabrida Eastw.

det. Noel H. Holmgren

Castilleja 10)

11358 - 13 May 1926

Energy is still low. Cloudless
evening dry, cloudy
around the hills. Sun

high, heat ca 2

sun lost of little

to the top, at 8000

km ca 30 km

airline north east of

Hanford Cr., 1170-265,

Range 13E, S 14.

Elev. ca 1600 m. Slender

twining ~~shrub~~ shrubs ca

4-5 m tall.

Quercus gambelii Nutt. v. t.

Wheaton - 13

1135 7/12 May 1962

Wayne Co., W. Va.

Grassland - ~~openings~~ ^{in surface}
dunes & gl. - ~~intermediate~~
scrubland - ~~openings~~ ^{openings}

28

15

2200 ft. S. base of Mts.

8 S.S. ~~by~~

~~8~~

1700 m.

Temperate zone
temperate climate

scrubland - ~~openings~~ ^{openings}

scrubland - ~~openings~~ ^{openings}

Flowers white

Lupinus argenteus

Lupinus

1136) 13 May, 1875

Wayne Co., Utah

Same place as 1135?

Stems numerous and
deciduous ascending from
a taproot and divided
near the base. Flowers
pink-purple.

Astragalus mollissimus ✓

Torrey

var. *thompsoniae* (S.Wats.) Barneby

det. R.C. Barneby

✓

Astragalus mollissimus (10)

11358 - May 13, 1936

Wayne Co., W. Va.

var. 11357. Flowers
light pink lavender.

Pods ~~so~~ inflated,
largely red. lavender

Astragalus ceramicus
shield.

var. *ceramicus*

det. R. C. Barneby

Astragalus v. st phaca ①

1362 13 May 1976

Wayne Co. Utah

Sea level to 11359.

Flowers white.

Julyan plant blue.

Dimorphocarpa wislizenii

(Engelm.) Rollins

Mustard ♂

11363 - 14 May, 1976

Kings Co., Clark

in sandy soil of open
pine and juniper wood-

land. 85 m. elevation.

Lat. 41° 45' N. Long. 121°

Twp. 29 S., R. 16 E., ~~Sec.~~

S. 32. elev. ca. 1900 m.

Populus tremuloides

~~grisea~~ ~~grisea~~ ~~grisea~~

grows in local

forest with ~~white~~

white alder.

Townsendia incana Nutt.

Townsendia ~~(2)~~ (5)

13 - 14 May, 1976

Wayne Co., W. Va.

Lower Piney Hollow.

Soil white

Phlox hoodii Richardson

var. canescens (T. & G.) M. E. Rock



Hoodii (4)

11365 May 9, 1912

El Dorado, Mo.

In sandy soil 1/2 in.
m.s. - sand -
fine over the bottom

at about 200 feet elevation
from south end of valley.

Black River Tropic

225 S., R. 16 E., S. ~~26~~ 35

ca 1922 m.

In sandy soil 1/2 in.
m.s. - sand -
fine over the bottom
at about 200 feet elevation
from south end of valley.
not Bonner lavender;
no insectid but purple.

1365 - could

Astragalus nidularius
Barneby

det. R. C. Barneby

Astragalus

11366 - 101. May, 1936

Garfield Co., Utah.

In open piñon-juniper
woodland on red sandstone
substrate near the bottom
of Flint Fork, at 100 +
m. altitude south of

Heber River, Twp. 30 1/2
S., R. 16 E., S. 36, Eden,

c. 1800 m.

Flowers yellow

Lesquerella rectipes Wooton

3791 1/2

Specimen

(3)

11367 - 14 May, 1926
Collected Co. Wata-
tonia, Oregon 11366.
Leaves of Streptanthus.
Brassicaceae.

Streptanthus cordatus (L.)

Streptanthus (13)

11368 - 14 May 1976

Gafield Co., Utah.

Savanna in piñon-juniper
woodland ca 3 km north

of Fort Duchaine at
km. 20 on line to the S.

Eocene River. Near
~~the mouth of the~~
mouth of S. Fork.

30 $\frac{1}{2}$ S., R. 16 E. Elec.

ca 1850 m. Plants
single-stemmed trees
and shrubs. Flowers
yellow.

Caulanthus divaricatus Rollins
aff. *strumosa* (?)

11369 14 May, 1976

in open dry soil

base pinkish

Flowers purplish.

Pods firm-inflated.

Strictly unifoliate.

Astragalus preussii A. Gray

var. preussii

det. R. C. Barneby

Astragalus (?)

11370 14 May, 1976.

Marshall Co., W. Va.

sandy clay soil.

Altitude 4,000 ft.

Astragalus amphioxus

A. Gray

var. *amphioxus*



det. R.C. Barneby

Astragalus D

11371 - 14 May, 1936.

Kingsfield S. Idaho

Sandy clay loam in

dry sagebrush desert

west of ~~141~~ ¹⁴¹ Rd. 62

ca 4150 feet elevation with
1 Green River Top 315,

R. 16 E. S. 23 ~~23~~ 36S.

ca 1600 m. Tops white

with a yellow pollen

glaze

Zygadenus paniculatus S. Wats.

Zygadenus

(4)

11372 14 May, 1976

McFaddin, Etah.

Juniper Cole of green sand
below sandstone cliff
of Black Ridge, ca. 110 km.
airline south of Green River

Type 325, R 16E, S⁵ 6

Eleo. ca. 1600 m.

Elmeria pallens

Allium macropetalum

Pipe.

(40)
Allium canescens

11273 15 May, 1976

Sierra de la Malinche
Sandy soil below 3000
m. elevation. Little
rainfall - between 100-200 mm.
Culicaria community
is in flower at this
south of Yellow River.

Twp. 3 S., R. 16 E., S. 8

Elev. ca 1650 m.

Plants spreading by rhizome
all parts covered with fine

hairs. Petals white,
yellow center.

Oenothera caespitosa Nutt.
var. jonesii Munz

Carey 1964 (3)

15 Miles S.E.

Kingsford Co., W. Va.

Same place as 11375

Florescent yellow

Physaria australis (Kaysor)

Rollins

Physaria (8)

11275 15 May, 1946

Maryfield, San. Utah

Same place as 11373.

Leaves pale yellowish

green, tinged with
purple especially toward
the base with purple dots
here and there.

Flowers greenish.

Asclepias cryptoceras

S. Wats.

Asclepias cryptoceras 1

Asclepias ②

17326 15 May 1976
Sandy soil in
Bitter Juniper forest
2500, ca 120 km. south
of Green River.
Twp 52 S., R. 15 E., S. 36.
Alt. ca 1600 m. Flowers
numerous and long lasting,
red and blue being equal.
Flowers pale, ochreous
except for little dark purple
tips of the lobes.

Aster prae longus Sheld.
var. prae longas
det. R. C. Barneby

(5)

11377 15 May, 1972

Coleogyne gigantea (Wade)
Coleogyne desert wunder-
muthii massonii Hand
stone cliffs, shortly
north of the Colorado
River Canyon and ca
125 km. airline south of Green
River, Twp. 37 $\frac{1}{2}$ S., R. 15 E.

Elev. ca 1400 m.

Plants annual. Flowers
blue purple, the ~~back~~
flower with a central
white spot.
Lupinus pusillus lanceolatus
var. rubens (Rydb.)
specie: (D) 8

11378 - 15 May, 1976.

Garfield Co., Utah.

Same place as 11377.

Gland-appendages white
or slightly pinkish,
sometimes and signifi-
cantly enlarged, but
often are reduced or
missing, the fruit being
in p. w. & simple & no gaps.
Pedicels stalked & terminal.

Euphorbia Fendleri T. & G.

Euphorbia

(4)

11373 15. 1911

Hastings Co. state.

Same place as 11373.

Planned with woody
fibrous roots. Upper
petioles like the
fibrous rhizome.
Fls. purple.

Delphinium scaposum

Greene

July 16 ⑥

11380 - 15 May, 1976.

Garfield Co., Colorado

Same place as 11377.

Corolla pinkish yellow

Funnel form, rather

clear salve; faintly,

white - it is small

yellowish green

Putlets deeply rugose-reticu-

late on both dorsal and

ventral surfaces, with a

long, wide opinionated dorsal

ridge raised above.

Cryptantha tenuis (Eastw.)

Payson

Cryptantha ⑤

11381 15 May 1976

Meridian Id., USA

Sandy soil in Coleogyne
zone below ~~on massive~~
Sandstone cliffs ~~at~~
steeply south of the
Mead River Canyon
near 125 km. air line
at the base. Temp. 32 $\frac{1}{2}$ °.

K. 152 M. Elev. ca. 1400 m.

Locality flat top

E. N.E., 1-1.5 m. long

Hymenoxys leptoclada

(A. Gray)

1 May 1976

11382 - 15 May 1955

Yerfield P. Wsh.

Same place as 11381.

Banner lavender
wings and keel rich
~~pink~~ pink-purple

Astragalus
monumentalis Barnaby

det. R.C. Barnaby

Astragalus #

(10)

11383 - 15 May, 1976

Hopfield Co., Utah

Lagbrush zone below
massive Sandstone cliffs
shortly north of the
Colorado River Canyon,
ca 130 km and due south
of Moab.

Twp. 33 S, R14 E, S. 1.

Elev. ca. 1400 m.

Branching shrubs up to 5
or 6 ft tall. Kays (15)

18-20(23), lavender, 13-20 mm ^{long}

Morrenia anthora tortifolia (T & G.) Gray
^{var. imberbis} Coss.

Nicotiana anthora tortifolia
var. imberbis (G.)

11384 - 17 May, 1976

Emery Co., Utah.

dry brushy slopes, dry
meadows, scrub ca.
alt. 10,000 ft.

16. - 1 mi. east of Castle
Canyon, Twp. 19 S., R. 10 E.,
about S. 70° E.

2000 ft. 1700 m.

dry brushy slopes of
steep hillsides, dry
scrub, Pinyon pines,
Fruit Fairies.

Astragalus flavus Nutt.
var. flavus

det. R.C. Barnaby
Astragalus (10)

11385 February, 1936

Baca Co., Colorado.

Plants sparsely distributed
in open grassy areas in
and scrub grass ca. 5 km.
south of Nine Mile Can.

Yerba and ca 40 km due west
south of ~~Wright~~, Tex.
11S., R. 15E., S. 26

Elev. ca 1650 m. 212

Plants single slender
herbage glaucous. Petals
very pale greenish yellow
with a little ~~yellow~~ ~~yellow~~ colored.

Path used to Cuscuta
spreading

Thelypodopsis +
wyomingensis (A. Nels.) Rydb.

Prob. 1)

Cryptantha floridana (A. Nels.)
11386 - 17 miles ^{Peyson} N.E.
Pecos Pecos Co. Texas
Ditchy, gravelly soil on
alluvial terrace about
in alluvium, high grass
along sand wash
Elevation 3500 ft.
Desert. West of El Paso
Twp. 11 S., Range 17 E.,
about S. 15. Tex. Co.
200 m. from road
on a small and broken
ridge. Corolla salverform,
with a flat, whitish age
blistered with age and
evident yellow spots. Maturing
petals evidently raised rugose reticulate on
both sides; scar with a band of virgin
white. Name at top

11387 - 17 May, 1976.

Duchesne Co., Utah

Along the bottom of a
sandy gravelly dry wash
leading into Sand Wash, in
sagebrush-bunchgrass
country ca 35 km. west
and west of Elkhorn, Utah.

11387, about S. 15.

Dist. ca ~~1700~~^{m.} Stems numerous,
curved ascending from taproot and
branching candelabrum. Flowers
purple-blue, the lower ones
yellow-green at first open.

Lupinus wyethii S. Wats.

Lupinus (10)

11388 - 18 May, 1976

Bonneville Co., Utah. Sandy
desertly slopes on shaly
sandstone substrate in
Squawbrush-bruchgrass
community above Sand
Wash, ca 35 km. west
westwest of Laramie.

Twp. 11 S., Range 17 E.,
about S. 15, Elev. ca.
1700 m.

Elaeagnus angustifolia
Phiss longifolia Nutt.
var. longifolia
Kleck longipolia (6)

11389 - 18 May, 1976

Drechslera l. c. ~~lutea~~

Same place as 11366.

Petals ~~white~~ bicolorate,
white, withering
pink.

Oenothera caespitosa

W.H.

var. jonesii Flwrs.

Oenothera cf. caespitosa (16)

11380 - 18 May 1976

Same place as 11388

Except elev. ca.

1750 m. Bracts
 vermilion. ref to
 scarlet.

Castilleja chromosa

A. Nels.

det. Noel H. Holmgren

Castilleja

(7)



11391. 18 May, 1976.

Same place as 11388.

Flowers rich pink-purple

Astragalus

chamaeleon A. Gray

det. R. C. Barneby

/

Astragalus ~~sp~~

(4)

11392-18 May, 1976

Winnemucca Mts., Nev. In gravelly
soil overlying shaly limestone
substrate in Sagelbrush-
Lunchgrass community,
along Sand Wash, ca. 35
km. southeast of Rhyolite
Twp., N.M. Sub P. 175, about S.
15 7-18-00 1200 m.

Plants spreading and becoming
occasionally long, slender,
erect on lateral roots. Herbage
glabrous. Flowers yellow
pink perianth. 11-12 mm. -
Granic

Leaves mostly (2)

11393 - 18 May, 1976.

Duckabush Co., Utah.

Same place as 11392.

Stems clustered on a

large mat, decumbent

Flowers white,

anthers slightly accented
with purple.

Oxytropis sericea Nutt.

det R.C. Barneby

Oxytropis 5

248

11394-20 May 1976

Unite Co., Colo.

W. Hill 24 sec. line 111

Sandy clay slopes

at base of hillside

On hillside southeast of
Laramie Gap - 2 S. R.

24 S. S. 50 + 7.

Elev. ca. 1550 m.

Fls. white, 7 heads

35, 46, 49, 71,

53, 55, 76 immature.

Erigeron engelmannii C.

var. engelmannii ✓

High mtn. sp. no. 1108

11875 20 May 1895.
Mesa Verde Co., Colo.

~~Stems several~~
Petals white to deep
pinkish lavender, with
a silvery iridescent
area at the top of the
yellow basal zone.

Calochortus Nuttallii

T. & G. 1

11875

(5)

11396 - 20 May 1976

Mintak Co., Utah. Rocky

limestone, about where

the Dixie Highway to

St. George and ~~to~~ Saltco

Marble Canyon. Callahan

on the east of Junction Ridge

2 S. R. 242 S 5 E.

Elev. ca. 1550 m.

Flowers white

All the stems

are upright

Reinhardt (6)

-Dollars

Take 10% take with

scattered fingers

very well

25 minutes

then ~~the~~ ready

for dinner.

After 10 minutes

it's delicious

Penstemon fremontii Turr. & Gray

det. Noel H. Holmgren

Penstemon

(7)

11398 20 May 1926

Mimulus L. var. ~~leptophyllum~~

Same place and 173' E. S. E.

Same habitat as above.

Leaves similar to those above.

Flowers white with a

a yellow style. Only one
or two nutlets maturing.

Mature nutlet evidently
larger to barely shorter
than style, strangely
~~rugose~~ ~~tuberculate~~ dorsally
more tuberculate ventrally.

Cryptantha humilis (A. C. Gray) Payson
var. nana (Gray) Payson

Calyptratae

11399 2011-11-19

Wetland Cliffs

Sample #11399

Soil blue-green,
soft and brittle.
Flowers yellow.

Cymopterus duchesnensis

M.E.Jones

Cymopterus (6)

11400 - 20 May, 1976

Saintpete Co., Utah

Same place as 1373.

Leaves green, not glaucous.

Flowers yellow.

Cymopterus purpureus.

S. Wats.

Plants 1-5

~~1140~~ 11401 - 20 May, 1976.

Wint. Co., Wyo.

Same place as 11381.

Fl Aging flowers white
or ochreous
with purple tipped
petals

Astragalus purshii Dougl.
var. purshii

det R.C. Barneby

Astrographes 7)

1140 L-20 May, 1976.

Minot Co., Iota b.

Sample no. ~~1397~~ 1397.

Flowers yellow.

Polygonia australis ✓

'Payson' Collins

physaria (10)

1143 - 2 May, '22.

Utah Co., Utah.

Same place as 11393.

Plants very lowly
desertic on a coarse,
woolly taproot. Heads
yellow. Fls yellowish.

Haplospur. armerioides

(Nutt.) A. Gray

Haplospur. armerioides (5)

11404 - 21 May, 1976
Clintah Co., Utah.
Along a shaly sandstone
ridge in rugged mesa
country ca 7-8
km. east of Coal Ridge
a piece 40 km. eastward
at about 15% basal Tuys
15.1 R. 25E., ca. S. 19. Elbow
ca. 1600 m. base with
15-20' of tuys

Machaeranthera venusta
(M.E. Jones) Grimes Koch

1905-21 May, 1916

Philippines

In sandy soil of a hill slope
between Agoo and

Country - as in 1905

Flowers pinkish red

Stems very slender, the
pink petals somewhat
wavy, heavily pubescent

Stem very delicately attached
to the cluster of heart-
shaped thickened roots.

Defining name Pritzl

et M. Pritzl

Dwarf

(D)

11406 21 May, 1970

Winnemucca, Nevada.

Length 10 mm. 34
Rays ca 12-22, light
pinkish, nearly white.

Townsendia incana Natt.

1

Townsendia

11407 - 21 May, 1976.

Same place as 11404.

Flowers pink-purple.

Astragalus chamaeleon

A. Gray

det R. C. Barneby

J.V

Astragalus (5)

11408 21 May, 1916

Same place as 11404.

Frizzled light yellow,
fading to semicircular
in edge.

Dipteris fendleri

J. Gray

39

11408 21 May, 1916

17409. 23. May 1776

Emery Co., Utah. Sandieg,

gravelly soil in pinyon-

-juniper woodland on the

San Rafael swell south

of Eagle Canyon, ca 25 km.

aerie northeast of

Hiram. Twp. 225., R. 9 E., S. 33.

Elev. ca 3100 m. Rays

on 12 heads 23, 32, 35, 38,

39, 34, 40, 43, 42, 55, 56,

-c, blue-lavender or
nearly white.

Erigeron pulchellus Nutt.

Suaeda concinnaoides Grong.

Vancondalia condensata (P. C. Eat.)

Grong.

(11)

Ericameria pectinata, *concreta*.

11410 - 23 May, 1976

Euroy Co., Utah.

Same place as 11409

Leaves solitary to
several or numerous.
Head yellow. Rays
mostly ca 13, subtended
at first ca 8.

Hymenoxys acaulis (Persch.)

K.T. Parker

var. *acaulis*

K.T. Parker

✓

Hymenoxys acaulis (10)

11411-23 May, 1946.

Laurel Hill, W.C.T.A.

Same place as 11409.

Flowers white, with
a yellow eye. Stems
clustering, ascending.

Nutlets rugose tuberculate
on both sides, the long,
open scar with a con-
striction below the
middle and bordered by a
raised rim.

Cryptantha Flavoculata

(A. Nels.) Payson

Cryptantha

(10)

11412 - 23 May 1976

Eureka Co., Utah,
Same place as 11409.

Leaves numerous, closely
clustered, short.
Flowers yellow.

Lesquerella alpina (Nutt.)

S. V. St.

var. *alpina*

(10)

11413-23 May, 1976

Emery Co., Utah

Stems few, rather
widely ascending.

Flowers yellow

Specimen no. 11409

Lesquerella kingii S. Wats.
subsp. latifolia (A. Nels.) ✓

Rollins & Shaw

Large leaves (7)

11414 - 23 May, 1976

Emery Co., Utah

Same place as 11409.

Rays white above,
pinkish beneath,
mostly ca 13, ranging
downward to a
minimum of 8.

Townsendia incisa Nutt.

Townsendia (4)

11415-23 May, 1946
Mary Co., Okla.

Same place as 11409.

Flowers pinkish.

Plants mostly not
flowering this year.

Chamissoa angustifolia

scapo. 1' scap. 1/2 d.b.

✓

Cirsium heterophyllum (?)

11416 - 23 May, 1936.

Emery Co., Utah

Same place as 11409.

Flowers lavender,

the banner with a

central pale spot.

Pods thick-walled, with
some longitudinal cavity.

Astragalus cymboides.

M.E. Jones

det P.C. Barneby ✓

Astragalus

6

11417.24 May, 1926

Energy Co., Utah ~~Indonesia~~
Michigan with sediment
Siphon elongated
like scape for nozzle
Smooth surface,
yellowish brown

Corolla limb
white with a yellow center
width of large 12-18 mm.
widens in mature nutlets
smooth and shining,
Tubular to be slightly
separated at the

~~Cryptantha~~ Higgins.

✓

Cryptantha johnstonii

Higgins

15.

10

Cryptantha aff. jamaicensis

11418. 24 May 1912.

in open flat, shaly
soil on very gentle slopes
with *Atriplex*, *Citraria*,
and *Ephedra* just north
of the small salt marsh
ground flora.

Leaves linear to
widely pinnatifid.
Flowers white.

Silia congesta Hook.

var. *congesta*, passing to

var. *frutescens* (Kytb.) Grong.

Silia 101

11419 - 24 May, 1976

Euroy Co., Utah

Same place as 11418

Astragalus mesiniensis

M. E. Jones

det R.C. Barneby

Astragalus ②

11429 - May, 1911

Emery Co., Wyo. - on
barren shale clay
slopes with scattered
Artemisia, *Atriplex*, and
Ephedra, just west of
South Salt Lake, ca 20
m. altitude, southeast of
Mine Top, 225 ft. S.E. S. 14.

Fls. ca 18 m. Plants
mostly adpressed, Corolla
pale lavender, the
extended filaments more
strongly lavender-purplish.

Phacelia crenulata Torr., ssp. lat.
(*C. rotundifolia* Ait.)

Phacelia crenulata (?)

11421-24 May, 1976.
Emery Co., Utah. In
shallow washes in
barren clay hills with
with scattered Artemis-
ia, Atriplex and Ephedra.
--- as in 11422. Leaves
~~long~~ blue glaucous.
Flower achroleucous, the
wings and keel lavender
purple.

Astragalus asclepiadooides
M. E. Jones
det. R. C. Barneby

Astragalus asclepiadooides

(B)

11422-24 May, 1976

Emery Co., Utah. Same

place as 11420. Stems
finely clustered on a

coarse, woody taproot
with branching caudex.

Leaves blue-glossous.

Flowers 4, yellowish,
located across the "flat"
near truncate tips, the
marginal teeth the
largest.

Euphorbia palmeri: Engelm.

var. *suavis*: (Engelm.) L.C. Wheeler
Wheeler

Euphorbia (5) (10)

11425 24 May, 1976.

Emery Co., Utah, Basin

sage slopes and flats

in south Coalville

at 5,000 feet

Aspinwallia

Troops 21 or 22 S., H.

7 E. Eleo. ca 1850 m.

Herbaceous mat

grasses, forbs

and yellow pink

~~purple~~ ~~purple~~ flowers

Caulanthus divaricatus Rollins

aff *stans* (?)

11626 - 26 Mar. 1952

Grand Co., Utah.

Observe limestone clay marl shale limestone.

Interstate Highway 70
and Father Lamy road east

of Green River in striped
blue, yellow, white.
This section has east
access to the highway
right of way, however.

Trip: 208.1 mi. Elevation

Polygonum moffatii

Eastw. var. moffatii

Polygonum

(10)

det. Noel
4-H Club

11432 - 75. - ~~Regrettably~~
Mesa Cr., Coconino. —
Cleome integrifolia L.
Flowers pink just
about pinkish.

? 15 mm. peduncles
all white? 12 mm.
Abronia elliptica A. Nels.
Habitat 32°
Tape. 95. + R. 10 1/2" 2 mm.
ca. 14 cm.

Flowers bright white,
Bracts dull pinkish or
whitish

Abronia elliptica A. Nels.

Abronia 11

11428 - May. 21.

Site de Colorado Along
a dry wash in Atacama -
Deserted desert just
east of West Gold Creek,
ca 15 km. south of the west
end of the ^{Ahnu} Rio Grande.
Elev. ca. 1400 m.

Openly branched spiny
shrub ca 3 m. tall
Flowers yellow

Tetradymia spinosa Hook. &

Arn.

Tetradymia. ③

11429 - 25 May, 1936

Wisc. Dells, Laine

Flowers 11 mm. Flowers
white with a yellow eye.

Nettles narrow, sharply
marginated, strongly
rugose reticulate on
the back, somewhat less
so ventrally, and with
an elongate, ventrally
closed scar.

Cryptantha elata (Sims)

May 26

Cryptantha (3)

25 May, 1921.

Mesa L., Colorado

~~Gilia~~ ~~inconspicua~~

Gilia inconspicua (Smith)

Sweet,
Sensat.

Gilia (10)

1143/ - 25 May 1936.

U.S.A. California.

1143/ - 25 May 1936.

U.S.A. California.

Cymopterus Fendleri A. Gray

11

Cymopterus Fendleri

11632 - 25 May 1971

Mesa Co., Colorado

Broad piece of

Flat top grassland

Wet meadowy area.

Stellaria longipes

and Leavenworthia alpina

and Thlaspi glaucum

and Agrostis capillaris

Allium nevadense, Wats.

Allium nevadense

Allium # ⑩

11433 - 25 May, 1976

Pima Co., California

Glacier Park Ranch

17 miles west of Tucson

east of Mt. Lemmon

Foothills of the San Andres Mts.

10,000' elevation

Subalpine timberline

11,000' elevation

Subalpine timberline

11,500' elevation

Subalpine timberline

Astragalus convallarius

Greene

var. convallarius ✓

det. R. C. Barneby

Astragalus

(10)

11434 - 25 May, 1976

Mesa Co., Colorado

Island Park area.

Stems $\frac{1}{2}$ in diameter.

Short hairless stems.

Opposite leaves,

and dark leafy

leaves.

Leaves

Astragalus asclepiadooides

M.E. Jones

det. R.C. Barneby

Astragalus, ⑤

11435 25 May, 1976
Mesa Co., Colorado

Same 11435

Same collection

Chamaesyce stenophylla, H.L.A.

Chamaesyce, 11435

11436 25 May, 1976.
Mesa Co., Colorado.

Castilleja Chromosa 11430.

P. A. C. S. 1976

Castilleja chromosa

A. Nels.

det. Noel H. Holmgren

Castilleja (T)

11437 - 25 May, 1976

Mesa Co., Colorado

Rays ca 13, perianth

Townsendia incana Nutt.

Townsendia (?)

11438 - 25 May 1976

Mesa Co., Colorado

Altitude 10,000 ft. elev.

Flowers initiated in

late spring, but

still in flower and

over 100 flowers

in flower

4-lobed!

v

Eriogonum inflatum

Torrey & Gray

var. *fusiforme* (Swall)

Reveal

Eriogonum inflatum (?)

11439 - 6 May 1976

Circumneutral Rocky,

High, with
scattered *Atriplex*, just
west of West Salt Creek,
ca 16 km. N.E. line with
west of Black. Temp. 35°,
E. 104 W., ca. S. 27. E.

ca. 1450 m. Plants
single-stemmed leaves
greenish-yellow
Cirsium neomexicanum ssp.
neomexicanum; anthers and
style faintly lavender.

Cirsium (?) 12. . . . 11.

11440 - 26 May, 1976.
Mesa Co., Colo. With
scattered *Atriplex* and
Artemisia on open,
probably clay slopes
and sandles just west
of West Salt Creek, ca.
16 km. airline north
west of Meeker. Twp. 8 S.,
R. 104 W., ca. S. 27. Elev.
ca. 1450 m. Petals white
with lavender pink,
with a thin adnecous
near the top of the gl.
- basal area. The
petals acute, exserted.

than high.

Calochortus nuttallii
T, t G,

C -

Calochortus (10)

11441 - 26 May, 1976
Mesa Co., Colorado.

With scattered *Atriplex*
and *Sarcobatus* on clay
benches just west of
West Salt Creek, ca 16 km.
airline west from $\frac{7}{8}$ -
Black Top S.S., R. 104 W., ca.
S. 27. Elev. ca. 1450 m.

Plants extensively creeping
below ground. Flowers
3-14, pink to rich pink
- purple, rarely white.
Lygodesmia grandiflora
(Nutt.) T. & G. ✓

Lygodesmia grand. (O)

11442 - 26 May, 1936.

El Paso Co., Colo. With

W. H. Clegg & son
Penstemon grayioides first
seen in Colorado with
a small colony with
rest of black stems

var. moffatii S. & G. Steyermark

Black stems with long
leafy spikes

Penstemon moffatii Eastw.

var. moffatii ✓

det. Noel Holmgren

Penstemon (4)

11443-26 May, 1926

Mesa Cr., Llano de Open,
greenish clay slopes
with scattered clumps
of grasses and sedges.
Plants forming small tufts
in grassy tufts surrounded
by sand. Heads yellow.
Key. no 8-13.

Bahia nudicaulis A. Gray

Bahia nudicaulis (T.)

114414 - 25 May 1926

Vista Pk., Colorado

Whitish-yellow striped
and yellowish-green flowers
about 1 1/2 in. long.
Same plant as last
seen in 11442.

Ranunculus pulcherrimus
var. wyomingia (Fyell) Cronq.

Eriogonum pulcherrimum Heller
var. wyomingia (Fyell) Cronq.

Eriogonum pulcherrimum (?)

July 26, 1936.

Mesa Co., Colorado.

Same place & altitude.

Flowers yellowish
to nearly yellow,
the basal middle
purple internal spot
is yellow near the
tip.

Astragalus Flavus Nutt.

var. flavus

det R.C. Barneby

Determined 6/1936

11446 - 26 May, 1976.

Mesa I., Colotado.

Scattered *Citriplex*
in brown clay soil
edge moist west slope
12. 1000' - 1100'

Petals yellow-white.

Stylipetalous glands
obtuse, yellow.

Arenaria eastwoodiae Rydb.

var. *eastwoodiae*

Arenaria (?)

11447 - 26 May, 1976.

Mesa Co., Colorado, Co.

Growing on clay slopes in
the valley of the Colorado River

West of West Salt

Wild as in 11442.

Same species.

Oenothera scapoidea

T. + G.

var. scapoidea

Oenothera ?

11445 - 26 May, 1976

Mesa is., Colorado. With
Scattered Aloeside and
barren grassy dry
slopes just west of West
Salmon Creek, as in 11442.
11442. Remained for while
the mesaside.

Eriogonum bicolor

N.E. Jones

Eriogonum

11449-26 May, 1940.

Wheaton, Virginia

Barefoot Gravelly clay

Upper white gravel

Atriplex west west of
West End Creek.

in 114462.

Flowers pink purple

Astragalus amphioxus

A. Gray

var. *vespertinus* (Sheld.)

M. E. Jones

det. R. C. Barneby

Astragalus 6

11450 26 May 1976

Kiowa Co., Colorado.

Spruce-juniper wood-
land on northeast-facing
sandstone slope overlooking
the Little Arkansas River Creek,
at 5500 ft. airline north
of Mt. L. L. Twp. 4S., R. 10E.
W., Co. S. 19. Elev. ca. 1900 m.
Flowers white

Androsace septentrionalis L.
sens. lat. ✓

Androsace

(6)

1145 / -27 May, 1976

Rio Blanco Co., Colo. USA

On clay embankment
~~with~~ ^s of West Evans-
ation Creek, with ~~it~~
Astragalus, *Cheyetellinus*,
and *Lavatera*, ca. 55 km.
ac line north of Vicksburg, Tex.
15.8° 103 W. & ca. S 19°.

Elev. ca. 1900 m. Herbage
glucous. Flowers
blue purple.

Penstemon osterhoutii Pennell
See Noel H. Holmgren

Penstemon ①

11452 27 May, 1926

Rio Blanco Co., Colorado.

Same place as 11450.

Corolla white with
a yellow eye. Nectary
strongly tuberculate and
reticulate on both sides;
scar open with a strongly
raised border, slightly con-
stricted below the middle.

Cryptantha flavescens

(A. Melville)

Cryptantha (?)

1145 - 27 May, 1976.

Rio Blanco Co., Cola.

Same place as 11450.

Plants forming loose
tufts from an extensive
root. Leaves perigonial
parallel, petiolate,
oblong white with a
small pink eye.

Fibers and monilium

Pleuro

114154 27 May, 1976.

Kiowa County, Colorado.

Same place as 114150.

Key apparently 10-16,
with other published

Townsendia mescana M.E. Jones

VAR. MESANA.

✓

Townsendia? 2

III. 19 - 27 May, 1936

Rio Blanco Co., Colorado.

Same place as 11c (50).

Flowers: lavender, purple.

Arabis crandallii B.L. Robinson

Arabis 10 "

Collected 27 May 1976

Blair Co., Idaho

With scattered junipers
and sagebrush in an
open, sandy ridge
just east of Elevation
line 4 and just south
of Park City, ca. ~~23~~²³ km
and ^{southwest} of Baranza.

Twp. 11 S., R. 25 E. - S. 28.

Elev. ca. 1700 m., sage-

gumines, flowers blue

Penstemon osterhoutii,
Pennell

det. Noel H. Holmgren

Penstemon

(S) (15)

1145 2 - 27 May, 1921.

Sierra de Gredos

Scrophularia 11456

Flowers yellow

Lesquerella alpina (Nutt.)

S. Wats.

L. alpina

Lesquerella 3

11458 - 27 May, 1926

Wasatch Co., Utah

With sagebrush on a hilly
gentle slopes just east of
Excavation Creek and
just south of Park

Elev. ca 2360 m. airline
South of ~~outlet of~~ Bear River -

Twp. 11 S., R. 25 E. ~~ca 2360~~
Elev. ca 1650 m.

Ray 1116, white to
purple

Townsendia incana (L.)

T. 11 S., R. 25 E. 10

1113 22 May, 1926, Flintch
Cattle-Open, shaly flats
in sagebrush zone, ca.
3400 ft. ^{V.A. 1}
with and few will.
Black Canyon about 2
miles ^{southeast} ~~south~~ of
Laramie. Top 115., R. 25 E.
15-16. elev. ca. 1800 m.

Herb: yellow. Fls. 8-15,
white fls. 8-2-3. L.

1113 22 May (Fursh)
K.T. Parker
var. capitosa (A.)

K.T. Parker

Hemerocallis.

(2)

1.0 27 May 1916

Uintah Co., Utah

~~Grindelia~~ 21

~~Flavescens~~ laevigata

Astragalus pubentissimus,

Titgr.

det. R.C. Barneby

✓

Oxytropis D

11461-27 May, 1976. Latah
Co., Idaho, USA, 8000 ft.

C. atke, Lam., 1809

11459. - Lam., 1809.

Leaves shallowly shallowly
channeled or nearly

flat, slightly, crenulated
inflatable.

Allium textile Nels.

Macbr.

allium textile ②

11462 - 27 May 1976.

Mitsch Co., Utah.

Shady slopes and canyons
with sagebrush.

ca. 15 km. northeast -
south east

south of Moab.

Tropic District, Box 2 +

S 22-33, E 8-11 miles.

1700 m. Flora: lavender.

Penstemon comarrhenus A. Gray
var. luteus Holmgren

Penstemon (10)

11463 - 23 May 1957

Hinds Co., Miss.

Perennial

Astragalus chamaeleuce

A. Gray

det. R. C. Barneby

Astragalus(?)

11464 - 22 May, 1926

Utah Co., Utah.

Barren, shaly knolls in
sagebrush zone on ¹²
low, eastward sloping hill.

Beneath, ages 105, 125 E.,
S. 29. Elev. ca 1250 m.

Plants mostly single-flowered
with few branched. Leaf-blade
will be seen to be white or yellowish
when young, becoming green
as the plant grows older.

flat

Cryptantha rollinsii I.M.Johns.

? Cryptantha (?)

11465 - 27 May, 1976

Wintah Co. Idaho

pinkish lavender. Deep-rooted, colonial perennial, presumably creeping below ground. Perianth rich pink to pale pink-lavender. Plant succulent. Leaves, glaucous.

Hermidium alipes S. Wats.
var. pallidum C. L. Porter

1976 (4)

11466-28 May, 1976.

Mintak Co., Utah

On open, shaly slopes,
with sagebrush, ca 2 km.
north of Parowan,
Twp 9 S., R. 24 E., S. 14.

See first entry under 11466
on. Flowers blue to
blue-purple.

Penstemon fremontii Torr. & Gray

det. Ned H. Holmgren

Penstemon

(8)

11467 - 28 Aug. 1936

Menthol Cr. Valley

Same place as last year.

Flowers pink-purple.

Astragalus mollissimus

Torr.

var. *thompsoniae* (S. Wats.)

Barnaby

det R. C. Barneby

Oct 22 1936

11468 - 28 May 1272.

Humboldt's Lettuce

Same place as 11466.

Fifteen monospecific,

with perhaps living 2 years. Leaf blade no
more than 1" wide. Corolla
white, ~~yellow~~ with a
yellow blotch. Plants
slightly upright.

Gilia stenothrys A. Gray

Rimay white ⑩

11469 - 28 May, 1976
with scattered junipers
and sagebrush on barren
dry hills just north
of Deadman Divide
Divide, ca. 20 km.
~~on~~ airline northeast
of Sonanza, Twp 75,
R. 25 E. S. 22 E.
ca 1700 m. Leaves
conspicuously bluish-
argentaceous. Corolla
white with a yellow
eye. Nutlets minute or lacking.
Cryptantha breviflora (Osterh.)
Cryptantha (10) Payson

11470 - 28 May 1976

Kintala, D. C. S.

Passiflora sp. 467

Flowers white with
a yellow eye.

Nectar strongly

ruegaric acid. Lvs. with
silvers with an encircled
border slightly complicated
below the middle.

Cryptostigma flavescens
(A. Nels.) Payson

Presented by

⑤
4

11471-23 May 1976.

Ginalba Co. Costa Rica

Pine forest at 1100 m. G.T.

Flowers white.

Plants somewhat mesitic.

Gilia congesta Hook.
var. *congesta*

Gilia

(12)

11472 - 28 May, 1956

Mimble Co., Welsh.

Same place as 1159

Flowers purple

Astragalus spatulatus

Sheld.

var. *spatulatus*

det. R.C. Barneby



Astragalus (3) 11472

11473-29 May, 1976

Hinckley Co., Utah

Barren red clay slopes

along the ~~southeast~~ side.

~~C~~ Antelope Draw

~~11473~~ Co. 11, 5544

acidic soil at Banana.

Top. 85, L. 218, S. 15.

Elev. ca. 1450 ft. Flowers

terminal, dull blue

leaves

Eriogonum salsuginosum (L.)

foot.

Polygonaceae (3)

11474 - 29 Aug 1976

Clint Lake Co., Utah

same place as 11473

Canyon Park

low in slender, the

short stiff whorls

Phacelia demissa A. Gray

Phacelia (3)

11475-29 May, 1926.

Mentado Co., lots to

same place as 11473.

Fowers yellow.

Oenothera scapoidea T. & G.
var. *scapoidea*

Oenothera (6)

11476 May, 1946
Auraria Co., Minn.
Several places 11473c

Allium textile

Wetland ✓

Allium tenuis (3)

11477 - 29 May, 1976

Utah Co., Utah

Sandy clay benches, with
^(Glen Beach)

Sarcobatus, ~~Grindelia~~, ^{Grindelia},
Tetradymia, etc., shortly

south of ~~Layton~~,
~~24~~ mi. S. Layton,
west of ~~Layton~~ 85.

Alt. 2200, S. ^{15'} Since ¹⁵⁰⁰ ~~4000~~

Flowers white, the marginal
ones slightly enlarged.

Chloris is the main grass.

Obs. made 10

15 May
1976, Clallam Co., Wash.
Semi-aquatic 11477.

Flowers white
Maturing nutlets all
alive, longer than the
stems, with scattered
small tubercles dorsally,
less so ventrally.

Cryptantha ambigua (A. Gray)
Greene

Cryptantha (10)

11479. 29 May, 1976

Uintah Co., Utah.

Sandy clay benches with
Sarcobatus, *Grajia*,
Atriplex, etc. -- as in

11422. Openly branched
shrub to ca. 6 dm. tall.
Flowers bright yellow.

Tetradymia spinosa Hook. &

Arn.

Tetradymia (4)

11050-29 May, 1976.

Plants Co., Utah. In
the sandier parts of
sandy clay. Located ^(610m)
~~south~~ Slightly south
~~Coyote Wash and ca.~~
^{northwest}
~~Dakota~~ airline ~~south~~ of
Bonanza. With ~~Succo-~~
~~latus~~, ^{Grasia} ~~Gray~~, ~~Tetradymia~~,
etc. I. up 8S., R. 22E.,
S. ¹⁵ ₁₅₀₀ Elevation ca. ~~4500~~ m.

Flowers yellow. Pappus
wholly deciduous.

Malacothrix sonchoides (Nutt.)

Hypoleptis (?)

11481 - 29 May 1921

Mint Lake, Utah Basin

rocky clay knolls ca. 17

low. airline west of Roway.

Twp. 2 S., R. 22 E., S. 24

Elev. ca. 1500 m. Plants

colonial by more or less
deep-seated creeping roots.

Heads yellow. Rays

6 15, often 13.

Bahia nudicaulis A. Gray

3.1. - 20

Bahia nudicaulis (6)

11-18-2 29 May, 1936

Same place as 481.
Rays white To pick,
8-17, off 1-13.

Townsendia strigosa Nutt.

Townsendia

(10)

10

11483 - 29 May, 1976
Minotah Co., Idaho. Basin

Clay hills ca 15 km.
Highline west of Bonanza,
Twp. 9 S., R. 23 E., S. 30.
Elev. ca 1500 m. Rays
25-44 white to pale
yellow.

Erigeron pulcherrimus Heller
var. *wyomingia* (Rydb.) Gray

Erigeron p. wyomingia (9)

11184 - 30 May, 1926.

Winti Co., Utah. Around
the borders of a swampy
alkali, somewhat alkaline.
A ground pond in the
desert ca 11 km. east of
West of Parowan, Utah.
15.6° N. Lat., S. 22. Elev.
ca 1500 m.

Eleocharis palustris L.

El. palustris

11485. 30 May, 1936.

Uintah Co., Utah.

Same place as 11484. Rhizome
producing very hard tubers.
Stem sharply trigonous.
The same species growing
much robustly (6 dm tall
and more) in highly al-
kaline seep below the dam.

Scirpus maritimus L.

var. *paludosus*

(A. Nels.) Kuckenthal

✓
Scirpus (13)

11-78 - 30 May, 1976.

Wetland in Lake Hawley
dry slopes in pinon juniper
woodland shortly
south of Cliff Ridge
and ca. 4000 feet
east-southeast of Laramie
Ranch ca. 1800 m.

Stems solitary. Herbage
strongly glaucous. Petals
atropurpureus, with
pale margins

Twp. 55, R 25E, s. 33

Caulanthus crassicaulis (Tory) Wats.

Caulanthus (10)

11487 30 May, 1976

Lincoln Co., Wash.

Lampracis 1163e.

Stems cespitose, glaucous yellow. Fruits mostly suberect, owing to constrictions more or less widely spreading.

Erysimum asperum Nutt.,
sens. lat.

Erysimum capitatum (10),

11458 - 30 May, 1976

Uintah Co., Utah

Same place as 11456.

Plants puberulent
- cespitose. Flowers
white, the banner
with lavender guide-

11459.

Astragalus spatulatus
Sheld.

var. *spatulatus*

det. R C Barneby

Astragalus ?

11489 - 30 May, 1976

Idaho Co., Idaho

Same place as 11479.

Flowers yellow.

✓
Physaria australis

(Payson) Rollins

Physaria (8)

95

31

11490 - 30 May, 1976

Mintab Co., Colorado

Tinyon-jiper wood-
land above Minet's Draw,
located near the base of
Cliff Ridge, ca. 40 km.
airline east-southeast
of Vernal. Elev. ca. 1900

km. Twp. 5 S., R. 25 E.

S. 27.

Plants vegetative, mostly
herbaceous, sometimes
blooming stolons.

Centauria scarlet.

Gilia aggregata (Pursh) ~~Spreng.~~
Spreng.

Gilia aggregata (13)

1491 - 31 May, 1976

Mitsch Co., Utah.

Rocky grassy hill sides
Miner's Draw in wash, ~~in~~ ^{near} ~~draw~~ shortly
south of Cliff ~~Top~~ ^{Top}

Ridge and ca. 40 m.
airline east-southeast
30 sec. Twp. 3 S., R. 25 E.

S. 27 Ele. ca. 13,52 m.

Stems clustered and upright
and branching considerably.
Heads yellow, with ~~ca.~~ 10-14 rays.

Hymenoxys richardsonii (Hook.)
Cockerell

var. *richardsonii*

Hymenoxys ⑧

11492 31 May 1926

Blaine Co., Utah.

Very fresh specimens in
pinon-juniper wood-

^{Miner's Draw,}
~~Grand Canyon~~
shortly south of Cliff
Ridge and ca. 4000 ft.

airline east-southeast

Floral. Typ. S. R. 52
S. 27, elev. ca. 1850 m.
~~W. yellow.~~

✓

Crepis occidentalis Nutt.

var. *occidentalis*

Crepis (?)

11493 31 May, 1926
Uintah Co., Utah. On
benton gray clay slope
in pinyon-juniper zone
^{Miner's Dream}
along ~~an~~ slightly
south of Cliff Ridge and
ca 40 km. air line
east-southeast of
Vernal, Trip 52, R. 25 S. L. 2 E.
Elev. ca. 1850 m. Plants
colonial, with long slender,
subterranean creeping
Flowers lavender
Vicia americana Nutt. ex Willd.

Vicia (10)

~~H~~ HU 94 31 May 1976

Emitah Co., Utah.

Pinyon-juniper woodland
along the base of Cliff
Ridge, east of Vernal
- southeast of Vernal.

Twp. 55., R. 25 E., S. 27.

Elev. ca 1900m. Rays
8-14, often 11 or 13, pinkish
 beneath, nearly white
 above.

Townsendia megarhiza Wats.

Townsendia (?)

11495 May, '26

Clinton's in. Rockies

sagebrush openings in
pine-juniper woodland
slightly south of Cliff
Ridge and ca. 40 km.

Aerline east. sweetest
~~green~~ Vernal.

Fls mostly 18-24,
white.

Twp. 55. R. 25 E. S. 1.

Elev. ca. 1850 m.

Machaeranthera Vernata.

(M. E. Jones) Cram & Keck

Machaeranthera (3)

11496 - 31 May. '26

Gila Co., Idaho.

Piney - juniper covered
and Miner's Drift
partly scree & talus

Kellogg and ca. 40 km.

east southeast of Kamiah

Twp 5 S., R. 25 E., S. 16

Elev. ca. 1300 m.

Stems few, widely
ascending. Flowers
yellow.

Lesquerella rectipes Wooton & Standley

Lesquerella (10)

11497 - 31 May, 1976.

Minnehaha Co., Minn.

Same place as 11496.

Herbage strongly
glaucous. Flowers
blue to lavender-purpl.

Penstemon osterhoutii

Pennell

det. Noel H. Holmgren

Penstemon ♂ 1200

1433 31 May 1936.

Utah Co., Utah. Dried
the base of barren clay
~~slope~~ slopes in canyon
Juniper woodland just
south of Cliff Ridge and
2 miles below east
exit of cut ~~at~~ ~~at~~

Twp 5 S., R. 25 E., S. 33.

Elev. ca 1800 m.

Flowers blue.

Lupinus kerviaulis S. Wats.

Annual lupine (?)

11499-3; May, 1916.

Uinta Co., Utah.

- Basin clay ridge
near head of creek south
of Cliff Ridge and ca. 40
km. west of east-southeast
of Vernal. Twp. 5~~E.~~ R. 35E.
S. 33. elev. ca 1800 m.
~~(In) Pediom. fasciculatum~~

Planted at viney, clumped,
overhanging rocky slopes
just above yellow sand
at foot, native.
Thermopsis rhombifolia Nutt.

Thermopsis? ⑫

11500 31 May, 1976.

Custer Co., Wyo.

Scattered in prairie

in riparian woodland
along Miner's Draw,
at foot of Double Cliff
Liaison area at 1 km.
elevation east - south west
Teton P. Top 93, R. 25 E.,
S. 33. elev. ca. 1800 m.

A large grassy area with
little vegetation.

Streptanthus cordatus

Streptanthus (3)

11501-3, May, 1976.

Unitah Co., Utah. On
barren clay slopes of a
knoll in pinyon juniper
zone just south of Mill
Ridge area ca. 40 km.

at base east-southeast of
Mount. Top. 55, R 25 E.

S. 33. Elev. ca. 1800 m.

Petals white. Anterior
lips of corolla
yellow.

Arennaria eastwoodiae Rydb.

var. *eastwoodiae*

Asplenia (7)

11507: 1 June, 1936

Vinton Co., W. Va.

In Dry wash in pungens
juniper woods at

shortly south of Cliff
Creek and ca 40 km.
S. of Pine Cast. on the
"Horn". Top. 5' 11" 1/2

S. 33° E. - ca. 180 m.

Multi-branched shrub ca.
2 m tall. Flowers
yellow, inconspicuous.

Man. with *Leptodactylus*
Leptodactylus pungens (Stor.)

Nutt.

Lepidodactylus pungens (Stor.)
Nutt.

11503 - 1 June, 1976

Uintah Co., Utah.

In open piñon-juniper
woodland ^{along Miner's Wash} about south
of Mill Ridge and ca 40
km. aerline east-southeast
of Vernal. Twp. 55, R. 25E.

5.33. Fls. ca 1800m.
Flowers white,
withering pink.

Oenothera trichocalyx (Nels.)
ex T. & G.

Oenothera

37

11504 - 1 June, 1936

Maintah Co., Utah. In
~~sage~~ juniper woodland
on a broad low ridge
shortly south of the east
end of Cliff Ridge, ca 45
km. SW of Moab, less than
1 km. west
of the Colorado Plateau line.
Elev. ca. 2,300 m.

Twp. 5 S., R. 15 E. 29

Plants forming loose mats
rooted mostly ~~in~~ on the ground.
Flowers blue. *Pentstemon caespitosus*
Nutt. ex A. Gray
var. *caespitosus*
Pentstemon 49

11505 | June 1976

Hinton Co., Wyo. Same
place as 11504. Flowers
yellow. Corolla lobes
erose and creased-twisted.

Lithospermum incisum Lehmann

Lithospermum ⑩

11506 1 June, 1976

Uintah Co., Utah

Open sagebrush mesa
toward the head of
Sturtz Draw, on the
Yampa Plateau,
~~at~~ less than 1 km.
from the Colorado
state line. Twp. 4S,
R. 25E., S. 25. Elev. ca.
2300 m. Flowers 5-85;
petals white with a
purple midrib.

Allium brandegei S. Wats.

Allium brandegei (D)

11507 1 June, 1976

~~Same~~ Same place
as 11506 Herbage
slightly glaucous.
Flowers white.

Thlaspi ①

11508 1 June, 1936.

Same place as 11506

Flowers deep blue,
the upper petals paler,
with blue veins.

Delphinium nuttallianum

Pritzel ex Walpers

Perhaps... (3)

19509 1 June 1946.

Glenvale, Co. Cittala

Same place as 19506.

~~Flower blue~~

Corolla blue,

glabrous within

Mertensia oblongifolia

(Nutt.) S. L. Gray

Mertensia ⑩

11510 1 June 1936

Uintah Co., Utah.

Same place as 11506.

Corolla white with a
light yellow eye.

Gymnosteris parvula Heller

Gymnosteris parvula ♂

11511-1 June 1976

Uintah Co., Utah.

Same place as 11506.

Ranunculus glaberrimus Hook.
var. ellipticus Greene

Ranunc. glaber. (4)

11512 - 1 June 1976

Willo scattered pines
pines atop cliff edge,
ca. 40 km. west
southeast of Duran

S.S. Radcliff

ca. 1100 m.

Arctostaphylos

Shrub forming clumps

Leaves 3 to 6 cm. l.

Flowers light pink

Flowers pink

Arctostaphylos perfoliata

Arctostaphylos canescens

11513 - 2 June 1926.

Uintah Co., Utah.

Sagebrush table-land
shortly northeast of
Cliff Ridge, and ca. 40+
km. east-northeast of
Vernal. Top. S.S.R. 25 E.
~~ca. 8210 ft.~~ S. 10 or 15.
Elev. ca. 2300 m.

Petals white; anthers
yellow. Developing
fruits ribbed all around.

Lomatium nevadense (S. Watson)

Coult. + Rose

Western? (4)

11514-2 June 1976

Caintah Co., Utah.

Same place as 11513.

Flowers white, with
a trace of anthocyanin

Trifolium gymnocarpon Nutt.

var. gymnocarpon

Trifolium (10)

11515-2 June, 1976

Blount Co., Utah.

Sagebrush table land of Blue
Mountain Plateau, ca 5 km.
north, then more easterly
part of Cliff Ridge, and
ca. 45 km. air line.

east-southeast of Vernal

5, 10, 11, or 15

Twp 55 R. 25E. ~~ca 5 mi~~

Elev. ca 2300 m.

Corolla rich pink-purple;
filament tube yellow;
anthers atropurpureous

Dodecatheon pauciflorum

(Durang) Greene

Dodecatheon 10

11516 2 June, 1926

Uintah Co., Utah

Same place as 11515.

Petals 8-10 mm. white.

Stigmas 5-7.

Lewisia pygmaea (A. Gray)

B. L. Robinson

Lewisia ④

11517 2 June, 1976

Moffatt Co., Colorado.

Species in sandstone
outcrop on a gravelly
tableland shortly north
west of ~~Stark~~ Sturtz
Reservoir, on the Yampa
Plateau, scarcely 1/2 km.
from the black ~~black~~ border,
Twp. 6 N. R. 11 T.W. S. 35.
Elev. ca 2300 m. Petals
light yellow. Flavens (5)

Ivesia gordonii (Hornk.)

T.G.

Ivesia (?)

1146

F.H.S. 6172 S. 22

at 2,745'

Myton is 35, 2 mi, S 25°

Northwest of Myton, but

about 1000 ft. lower

Cliff is extremely

steeply tilted

and very open towards

the base, here it is

the sterile shale which

or sometimes penitiferous

5' for limestone fl. stones

slightly penitiferous. Quid?

A penitiferous?

5931
30
25
39
40

5137

Bananapio: 95, R 24E, S 23

W.L. 100, C. 400

55, 25E, S. 33, N 53° 1'
NE 1/4. 1974. 82M

801-374-1211 | pine
et. 2582 | b

June 14-15

	93	58	78	28	CETE
Se	70	CC	26	60	08
he	61	10	10	08	61
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C	11	11	5	5	52
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